Proposed Decision Memo for Intensive Behavioral Therapy for Obesity (CAG-00423N)

Decision Summary

The Centers for Medicare and Medicaid Services (CMS) proposes the following:

The evidence is adequate to conclude that intensive behavioral therapy for obesity, defined as a body mass index (BMI) $\geq 30 \text{ kg/m}^2$, is reasonable and necessary for the prevention or early detection of illness or disability and is appropriate for individuals entitled to benefits under Part A or enrolled under Part B and is recommended with a grade of A or B by the U.S. Preventive Services Task Force (USPSTF).

Intensive behavioral therapy for obesity consists of the following:

- 1. Screening for obesity in adults using measurement of BMI calculated by dividing weight in kilograms by the square of height in meters (expressed in kg/m2);
- 2. Dietary (nutritional) assessment; and
- 3. Intensive behavioral counseling and behavioral therapy to promote sustained weight loss through high intensity interventions on diet and exercise.

The intensive behavioral intervention for obesity should be consistent with the 5-A framework that has been highlighted by the USPSTF:

- 1. **Assess**: Ask about/assess behavioral health risk(s) and factors affecting choice of behavior change goals/methods.
- 2. Advise: Give clear, specific, and personalized behavior change advice, including information about personal health harms and benefits.
- 3. **Agree**: Collaboratively select appropriate treatment goals and methods based on the patient's interest in and willingness to change the behavior.
- 4. **Assist**: Using behavior change techniques (self-help and/or counseling), aid the patient in achieving agreed-upon goals by acquiring the skills, confidence, and social/environmental supports for behavior change, supplemented with adjunctive medical treatments when appropriate.
- 5. **Arrange**: Schedule follow-up contacts (in person or by telephone) to provide ongoing assistance/support and to adjust the treatment plan as needed, including referral to more intensive or specialized treatment.

For Medicare beneficiaries with obesity, who are competent and alert at the time that counseling is provided and whose counseling is furnished by a qualified primary care physician or other primary care practitioner and in a primary care setting, CMS proposes to cover:

- One face to face visit every week for the first month;
- One face to face visit every other week for months 2-6;
- One face to face visit every month for months 7-12.

At the six month visit, a reassessment of obesity and a determination of the amount of weight loss should be performed. To be eligible for additional face to face visits occurring once a month for an additional six months, beneficiaries must have achieved a reduction in weight of at least 3kg over the course of the first six months of intensive therapy. This determination must be documented in the physician office records for applicable beneficiaries consistent with usual practice.

For the purposes of this proposed decision memorandum, a primary care setting is defined as one in which there is provision of integrated, accessible health care services by clinicians who are accountable for addressing a large majority of personal health care needs, developing a sustained partnership with patients, and practicing in the context of family and community. Emergency departments, inpatient hospital settings, outpatient hospital settings, ambulatory surgical centers, independent diagnostic testing facilities, skilled nursing facilities, inpatient rehabilitation facilities and hospices are not considered primary care settings under this definition.

For the purposes of this proposed decision memorandum a "primary care physician" and "primary care practitioner" will be defined consistent with existing sections of the Social Security Act (§1833(u)(6), §1833(x)(2)(A)(i)(I) and §1833(x)(2)(A)(i)(II)).

§1833(u)

(6) Physician Defined.—For purposes of this paragraph, the term "physician" means a physician" means a physician described in section 1861(r)(1) and the term "primary care physician" means a physician who is identified in the available data as a general practitioner, family practice practitioner, general internist, or obstetrician or gynecologist.

§1833(x)(2)(A)

Primary care practitioner—The term "primary care practitioner" means an individual—

(i) who—

- (I) is a physician (as described in section 1861(r)(1)) who has a primary specialty designation of family medicine, internal medicine, geriatric medicine, or pediatric medicine; or
- (II) is a nurse practitioner, clinical nurse specialist, or physician assistant (as those terms are defined in section 1861(aa)(5)).

We are requesting public comments on this proposed determination pursuant to section 1862(I) of the Social Security Act. After considering the public comments, we will make a final determination and issue a final decision memorandum.

Back to Top

Proposed Decision Memo

TO: Administrative File: CAG-00423N

FROM:

Louis Jacques, MD Director, Coverage and Analysis Group

Tamara Syrek Jensen, JD Deputy Director, Coverage and Analysis Group

Jyme Schafer, MD, MPH Director, Division of Medical and Surgical Services

Printed on 11/20/2011. Page 3 of 28

Sarah McClain, MHS Lead Health Policy Analyst, Division of Medical and Surgical Services

Joseph Chin, MD

Medical Officer, Division of Medical and Surgical Services

SUBJECT: Proposed Coverage Decision Memorandum for Intensive Behavioral Therapy for Obesity

DATE: August 31, 2011

I. Proposed Decision

The Centers for Medicare and Medicaid Services (CMS) proposes the following:

The evidence is adequate to conclude that intensive behavioral therapy for obesity, defined as a body mass index (BMI) \geq 30 kg/m², is reasonable and necessary for the prevention or early detection of illness or disability and is appropriate for individuals entitled to benefits under Part A or enrolled under Part B and is recommended with a grade of A or B by the U.S. Preventive Services Task Force (USPSTF).

Intensive behavioral therapy for obesity consists of the following:

- 1. Screening for obesity in adults using measurement of BMI calculated by dividing weight in kilograms by the square of height in meters (expressed in kg/m2);
- 2. Dietary (nutritional) assessment; and
- 3. Intensive behavioral counseling and behavioral therapy to promote sustained weight loss through high intensity interventions on diet and exercise.

The intensive behavioral intervention for obesity should be consistent with the 5-A framework that has been highlighted by the USPSTF:

- 1. **Assess**: Ask about/assess behavioral health risk(s) and factors affecting choice of behavior change goals/methods.
- 2. Advise: Give clear, specific, and personalized behavior change advice, including information about personal health harms and benefits.
- 3. **Agree**: Collaboratively select appropriate treatment goals and methods based on the patient's interest in and willingness to change the behavior.
- 4. **Assist**: Using behavior change techniques (self-help and/or counseling), aid the patient in achieving agreed-upon goals by acquiring the skills, confidence, and social/environmental supports for behavior change, supplemented with adjunctive medical treatments when appropriate.
- 5. **Arrange**: Schedule follow-up contacts (in person or by telephone) to provide ongoing assistance/support and to adjust the treatment plan as needed, including referral to more intensive or specialized treatment.

For Medicare beneficiaries with obesity, who are competent and alert at the time that counseling is provided and whose counseling is furnished by a qualified primary care physician or other primary care practitioner and in a primary care setting, CMS proposes to cover:

Printed on 11/20/2011. Page 4 of 28

- One face to face visit every week for the first month;
- One face to face visit every other week for months 2-6;
- One face to face visit every month for months 7-12.

At the six month visit, a reassessment of obesity and a determination of the amount of weight loss should be performed. To be eligible for additional face to face visits occurring once a month for an additional six months, beneficiaries must have achieved a reduction in weight of at least 3kg over the course of the first six months of intensive therapy. This determination must be documented in the physician office records for applicable beneficiaries consistent with usual practice.

For the purposes of this proposed decision memorandum, a primary care setting is defined as one in which there is provision of integrated, accessible health care services by clinicians who are accountable for addressing a large majority of personal health care needs, developing a sustained partnership with patients, and practicing in the context of family and community. Emergency departments, inpatient hospital settings, outpatient hospital settings, ambulatory surgical centers, independent diagnostic testing facilities, skilled nursing facilities, inpatient rehabilitation facilities and hospices are not considered primary care settings under this definition.

For the purposes of this proposed decision memorandum a "primary care physician" and "primary care practitioner" will be defined consistent with existing sections of the Social Security Act (§1833(u)(6), §1833(x)(2)(A)(i)(I) and §1833(x)(2)(A)(i)(II)).

§1833(u)

(6) Physician Defined.—For purposes of this paragraph, the term "physician" means a physician described in section 1861(r)(1) and the term "primary care physician" means a physician who is identified in the available data as a general practitioner, family practice practitioner, general internist, or obstetrician or gynecologist.

§1833(x)(2)(A)

Primary care practitioner—The term "primary care practitioner" means an individual—

- (i) who-
- (I) is a physician (as described in section 1861(r)(1)) who has a primary specialty designation of family medicine, internal medicine, geriatric medicine, or pediatric medicine; or
- (II) is a nurse practitioner, clinical nurse specialist, or physician assistant (as those terms are defined in section 1861(aa)(5)).

We are requesting public comments on this proposed determination pursuant to section 1862(I) of the Social Security Act. After considering the public comments, we will make a final determination and issue a final decision memorandum.

II. Background

The USPSTF recommendation for screening for obesity in adults (December 2003) states the following:

Printed on 11/20/2011. Page 5 of 28

| • The USPSTF recommends that clinicians screen all adult patients for obesity and offer intensive counseling and behavioral interventions to promote sustained weight loss for obese adults. Grade: B Recommendation . |
|---|
| The USPSTF explained this recommendation using the following rationale: |
| |
| • "The USPSTF found good evidence that body mass index (BMI), calculated as weight in kilograms divided by height in meters squared, is reliable and valid for identifying adults at increased risk for mortality and morbidity due to overweight and obesity. There is fair to good evidence that high-intensity counseling—about diet, exercise, or both—together with behavioral interventions aimed at skill development, motivation, and support strategies produces modest, sustained weight loss (typically 3-5 kg for 1 year or more) in adults who are obese (as defined by BMI ≥ 30 kg/m²). Although the USPSTF did not find direct evidence that behavioral interventions lower mortality or morbidity from obesity, the USPSTF concluded that changes in intermediate outcomes, such as improved glucose metabolism, lipid levels, and blood pressure, from modest weight loss provide indirect evidence of health benefits. No evidence was found that addressed the harms of counseling and behavioral interventions. The USPSTF concluded that the benefits of screening and behavioral interventions outweigh potential harms." |
| |
| Over the years, obesity (generally accepted as defined as a body mass index (BMI) ≥ 30 kg/m²) and overweight (BMI 25-30 kg/m²) have become increasingly important disease risk factors not only in developed countries but now also worldwide. The Centers for Disease Control and Prevention (CDC) reported that "obesity rates in the U.S. have increased dramatically over the last 30 years, and obesity is now epidemic in the United States" (Kahn, 2009). For older adults (age ≥ 60 years), the prevalance of obesity is about 37% among men and 34% among women based upon recent data from the National Health and Nutrition Examination Survey (NHANES) (Flegal, 2010). Obesity is directly or indirectly associated many chronic diseases including cardiovascular disease, musculoskeletal conditions and diabetes. In older adults, overweight and obesity were also found to be associated with "new or progressive ADL [activities of daily living] and IADL [instrumental activities of daily living] disability in a dose-dependent manner" (Wee 2011). |
| |
| Given the increasing importance of obesity, CMS initiated a national coverage analysis (NCA) in March 2011 to assess the USPSTF Grade B recommendation for Screening for Obesity in Adults. |
| |
| Since the 2003 recommendation, several studies have been published on obesity and reported consistent findings. For older adults (age ≥60 years), a systematic review conducted by McTigue and colleagues in 2006 reinforced these recommendations and stated that "intensive counseling can promote modest sustained weight loss." In 2009, a systematic review by Brown and colleagues reported that "diet with exercise and/or behaviour therapy demonstrated significant reduction in hypertension and improvement in risk of metabolic syndrome and diabetes compared with no treatment control." In 2011, a randomized controlled trial by Villareal and colleagues found that in obese older adults "a combination of weight loss and exercise provides greater improvement in physical function than either intervention alone." |
| |
| III. History of Medicare Coverage |
| |
| Pursuant to §1861(ddd) of the Social Security Act, CMS may add coverage of "additional preventive services" if certain statutory requirements are met. Our regulations provide: |
| |
| §410.64 Additional preventive services |
| |
| |

| (a) Medicare Part B pays for additional preventive services not described in paragraph (1) or (3) of the definition of "preventive services" under §410.2, that identify medical conditions or risk factors for individuals if the Secretary determines through the national coverage determination process (as defined in section 1869(f)(1)(B) of the Act) that these services are all of the following: |
|--|
| (1) Reasonable and necessary for the prevention or early detection of illness or disability.(2) Recommended with a grade of A or B by the United States Preventive Services Task Force.(3) Appropriate for individuals entitled to benefits under part A or enrolled under Part B. |

(b) In making determinations under paragraph (a) of this section regarding the coverage of a new preventive service, the Secretary may conduct an assessment of the relation between predicted outcomes and the expenditures for such services and may take into account the results of such an assessment in making such national coverage determinations.

IV. Timeline of Recent Activities

| March 11, 2011 | CMS initiates this national coverage analysis for Intensive Behavioral Therapy for Obesity, and the initial 30-day public comment period begins. |
|----------------------|--|
| April 10, 2011 | The initial 30-day public comment period closes. |

V. Food and Drug Administration (FDA) Status

Counseling services do not generally fall under the purview of the FDA.

VI. General Methodological Principles

When making national coverage determinations concerning additional preventive services, CMS applies the statutory criteria in §1861(ddd) of the Social Security Act and evaluates relevant clinical evidence to determine whether or not the service is reasonable and necessary for the prevention or early detection of illness or disability, is recommended with a grade of A or B by the USPSTF, and is appropriate for individuals entitled to benefits under part A or enrolled under Part B of the Medicare program.

Public comments sometimes cite published clinical evidence and give CMS useful information. Public comments that give information on unpublished evidence such as the results of individual practitioners or patients are less rigorous and therefore less useful for making a coverage determination. Public comments that contain personal health information will not be made available to the public. CMS uses the initial public comments to inform its proposed decision. CMS responds in detail to the public comments on a proposed decision when issuing the final decision memorandum.

VII. Evidence

A. Introduction

Consistent with §1861(ddd)(1)(A) and 42 CFR 410.64(a)(1), additional preventive services must be reasonable and necessary for the prevention or early detection of illness or disability. With respect to evaluating whether screening tests conducted on asymptomatic individuals are reasonable and necessary, the analytic framework involves consideration of different factors compared to either diagnostic tests or therapeutic interventions. Evaluation of screening tests has been largely standardized in the medical and scientific communities, and the "value of a screening test may be assessed according to the following criteria:

- i. Simplicity. In many screening programmes more than one test is used to detect one disease, and in a multiphasic programme the individual will be subjected to a number of tests within a short space of time. It is therefore essential that the tests used should be easy to administer and should be capable of use by para-medical and other personnel.
- ii. Acceptability. As screening is in most instances voluntary and a high rate of co-operation is necessary in an efficient screening programme, it is important that tests should be acceptable to the subjects.
- iii. Accuracy. The test should give a true measurement of the attribute under investigation.
- iv. Cost. The expense of screening should be considered in relation to the benefits resulting from the early detection of disease, i.e., the severity of the disease, the advantages of treatment at an early stage and the probability of cure.
- v. Precision (sometimes called repeatability). The test should give consistent results in repeated trials.
- vi. Sensitivity. This may be defined as the ability of the test to give a positive finding when the individual screened has the disease or abnormality under investigation.
- vii. Specificity. This may be defined as the ability of the test to give a negative finding when the individual screened does not have the disease or abnormality under investigation (Cochran and Holland 1971)."

As Cochrane and Holland (1971) further noted, evidence on health outcomes, i.e., "evidence that screening can alter the natural history of disease in a significant proportion of those screened," is important in the consideration of screening tests since individuals are asymptomatic and "the practitioner initiates screening procedures." The USPSTF has also integrated consideration of these factors in their assessments and recommendations.

B. United States Preventive Services Task Force (USPSTF)

The USPSTF recommendation for screening for obesity in adults (December 2003) states the following:

• The USPSTF recommends that clinicians screen all adult patients for obesity and offer intensive counseling and behavioral interventions to promote sustained weight loss for obese adults. **Grade: B Recommendation**.

USPSTF Grade Definitions Prior to May 2007

The U.S. Preventive Services Task Force (USPSTF) assigns one of five letter grades to each of its recommendations (A, B, C, D, I). The USPSTF changed its grade definitions based on a change in methods in May 2007).

| The definitions below (of USPSTF grades and quality of evidence ratings) were in use prior to the update and apply to recommendations voted on by the USPSTF prior to May 2007. |
|--|
| A – Strongly Recommended: The USPSTF strongly recommends that clinicians provide [the service] to eligible patients. The USPSTF found good evidence that [the service] improves important health outcomes and concludes that benefits substantially outweigh harms. |
| B – Recommended: The USPSTF recommends that clinicians provide [the service] to eligible patients. The USPSTF found at least fair evidence that [the service] improves important health outcomes and concludes that benefits outweigh harms. |
| C – No Recommendation: The USPSTF makes no recommendation for or against routine provision of [the service]. The USPSTF found at least fair evidence that [the service] can improve health outcomes but concludes that the balance of benefit and harms is too close to justify a general recommendation. |
| D – Not Recommended: The USPSTF recommends against routinely providing [the service] to asymptomatic patients. <i>The USPSTF found at least fair evidence that [the service] is ineffective or that harms outweigh benefits.</i> |
| I – Insufficient Evidence to Make a Recommendation: The USPSTF concludes that the evidence is insufficient to recommend for or against routinely providing [the service]. Evidence that the [service] is effective is lacking, of poor quality, or conflicting and the balance of benefits and harms cannot be determined. |
| C. Literature Search |
| In addition to the prerequisite USPSTF recommendations, CMS must consider not only whether an additional preventive service is reasonable and necessary for the prevention or early detection of illness or disability, but whether the service is appropriate for individuals entitled to benefits under part A or enrolled under part B of the Medicare program. |
| To facilitate this determination, we searched PubMed from the year of the most recent evidence review and USPSTF recommendation to 5/2011 using key words: (1) obesity; (2) overweight; and (3) counseling for overweight and obesity. Given the extensive evidence base on this topic, randomized controlled trials and large prospective controlled studies were selected. |
| D. Discussion of Evidence Reviewed |

Printed on 11/20/2011. Page 9 of 28

| 1. Questions: |
|---|
| Our discussion focuses upon the adequacy of the evidence to draw conclusions about the risks and benefits of intensive behavioral counseling to promote sustained weight loss for obese Medicare beneficiaries. CMS analyzed the following questions: |
| |
| • Is the evidence sufficient to determine that screening for obesity in adults with intensive counseling and behavioral interventions to promote sustained weight loss for obese adults is recommended with a grade of A or B by the USPSTF? |
| • Is the evidence sufficient to determine that screening for obesity in adults with intensive counseling and behavioral interventions to promote sustained weight loss for obese adults is reasonable and necessary for the prevention or early detection of illness or disability? |
| • Is the evidence sufficient to determine that screening for obesity in adults with intensive counseling and behavioral interventions to promote sustained weight loss for obese adults is appropriate for Medicare beneficiaries? |
| 2. External technology assessment |
| Brown T, Avenell A, Edmunds LD, Moore H, Whittaker V, Avery L, Summerbell C, for the PROGRESS Team. Systematic review of long-term lifestyle interventions to prevent weight gain and morbidity in adults. Obesity Reviews 2009;10:627–63 |
| Brown and colleagues reported the results of a systematic review "to determine the effectiveness of interventions that focus on improving diet and activity behaviours in adults who are of normal weight, overweight and obese, to prevent weight g and morbidity in the long-term." Randomized controlled trials and controlled before and after studies on diet, exercise, and behavior in adults age 18–65 years with BMI <35 kg/m² with follow up of at least two years were included. Thirty-nine trial and one before/after study were reviewed. The authors reported that "eleven of 39 comparisons produced significant improvement in weight between groups at 2 years or longer with mean difference weight change ranging from -0.5 to -11.5 kg." They concluded that "diet with exercise and/or behaviour therapy demonstrated significant reduction in hypertension and improvement in risk of metabolic syndrome and diabetes compared with no treatment control." |
| Curioni C, André C, Veras R. Weight reduction for primary prevention of stroke in adults with overweight or obesity. Cochrane Database of Systematic Reviews 2006, Issue 4. Art. No.: CD006062. DOI: 10.1002/14651858.CD006062.pub2. |

Curioni and colleagues reported the results of a systematic review "to assess the effects of weight reduction for primary prevention of stroke in adults with overweight and obesity." The Cochrane database and Medline were searched for randomized controlled trials that compared any intervention for weight reduction with placebo or no intervention with a follow up period of at least one year. No suitable trials were located. The authors noted that "there are insufficient data to make recommendations for practice about the effects of weight reduction in people with overweight or obesity on stroke incidence." They reported: "Overweight and obesity seem to be associated with an increased risk of stroke and it has been suggested that weight loss may lead to a reduction of stroke occurrence. However, this hypothesis is not based on strong scientific evidence from randomised controlled clinical trials."

Franz MJ, VanWormer JJ, Crain AL, Boucher JL, Histon T, Caplan W, Bowman JD, Pronk NP. Weight-loss outcomes: a systematic review and meta-analysis of weight-loss clinical trials with a minimum 1-year follow-up. J Am Diet Assoc 2007:107:1755-1767.

Franz and colleagues reported the results of a systematic review "to determine types of weight-loss interventions that contribute to successful outcomes and to define expected weight-loss outcomes from such interventions." Randomized controlled trials on overweight or obese adults with at least one year of follow up were included. Primary outcome of interest was weight loss. Eighty studies with 26,455 individuals were included. Interventions included diet, exercise and medications. Mean age at baseline ranged from 23 to 68 years. Mean BMI at baseline ranged from 29 to 40 kg/m². The authors reported "interventions that include food and meal planning strategies—diet alone, diet and exercise, and meal replacements—resulted in a mean weight loss of approximately 5 to 8.5 kg (5% to 9%) from starting weight during the first 6 months. Weight-loss plateaus at approximately 6 months and stabilized to a weight loss of approximately 4.5 to 7.5 kg (4.8% to 8%) at 12 months. Weight loss of approximately 3 to 4 kg (3% to 4.3%) was maintained at 24, 36, and 48 months with none of the groups experiencing weight regain to baseline. Numerous reports have concluded that this amount of weight loss contributes to important health benefits."

McTigue KM, Hess R, Ziouras J. Obesity in Older Adults: A Systematic Review of the Evidence for Diagnosis and Treatment. Obesity 2006;14:1485-1497.

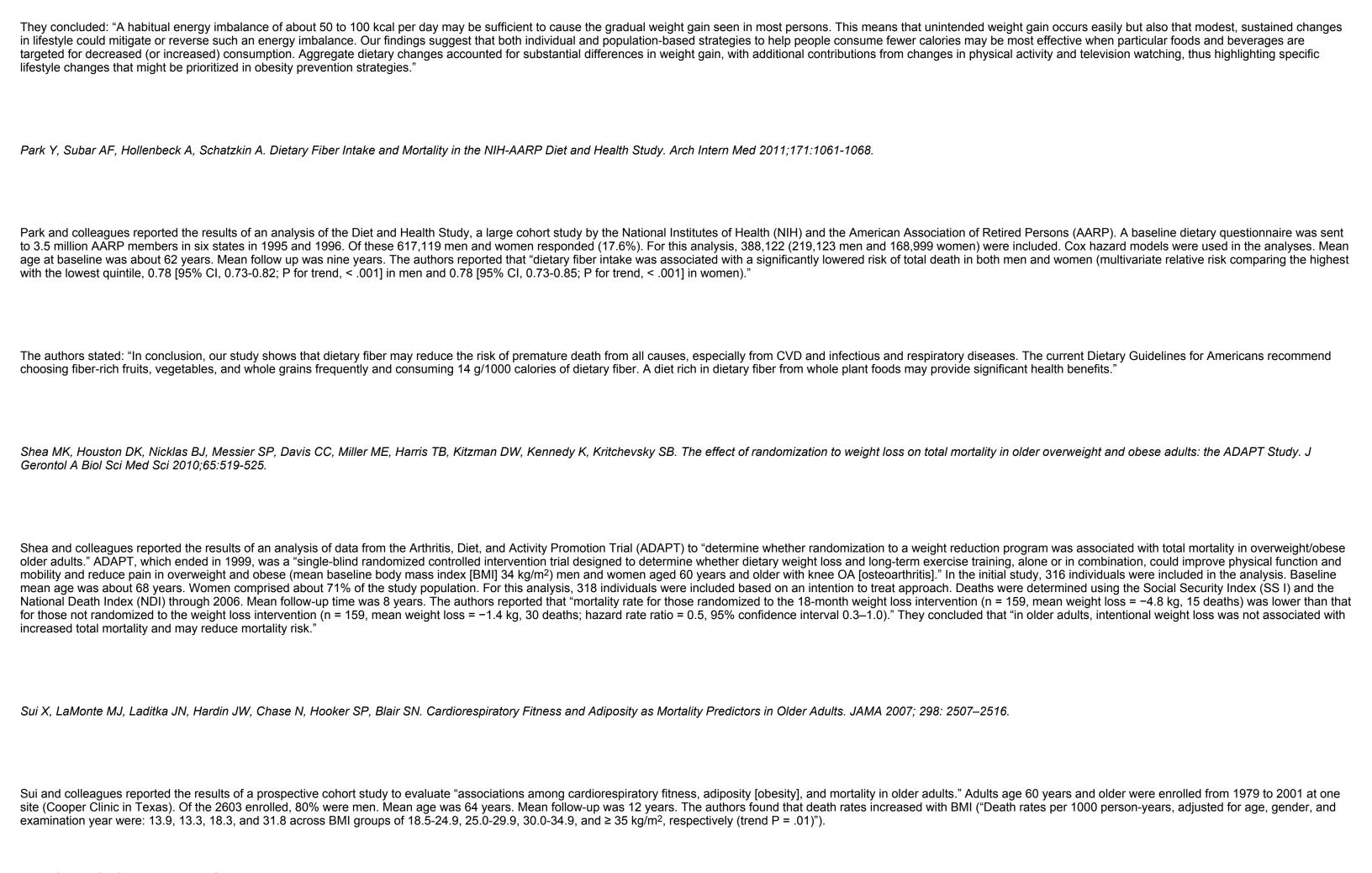
McTigue and colleagues reported the results of a systematic review "to better understand obesity-related health risk and the potential for interventions to alter such risk." They addressed four key questions regarding obesity in older adults: "Is obesity associated with long-term health risks? Can obesity be diagnosed with anthropometric measures? Can intervention result in weight loss result in improved health outcomes?" Studies with average age ≥ 60 years were included. Studies with follow-up of less than one year were excluded. The authors reported:

- 1. "Obese older adults are at increased risk for incident cardiovascular risk factors and events, certain cancers, and impaired mobility but are somewhat protected from hip fracture and lung cancer."
- 2. "In older adults, obesity can be diagnosed easily and inexpensively using anthropometric measures. Although the correlation between BMI and fat mass is lower in older adults than in the general population, the difference is typically small."
- 3. "In older adults, intensive counseling-based interventions incorporating diet and exercise can lead to modest (3 to 4 kg) sustained weight loss."
- 4. "This loss is sufficient to show a clinical improvement in glucose control and a reduction in the combined incidence of blood pressure abnormalities and cardiovascular events. Intervention results in a similar amount of weight loss in younger adults, but this amount appears to be more beneficial in preventing or delaying the onset of diabetes in older individuals. Modest weight loss may improve overall physical functioning in older adults with lower extremity arthritis."

They concluded: "Relatively healthy older adults who are at increased risk for cardiovascular disorders or arthritis-related functional impairment are likely to benefit from diagnosis of obesity and initiation of intensive lifestyle interventions. Intensive interventions that include diet, physical activity, and behavioral components are most likely to promote health. Dietary components should reflect evidence-based approaches for weight loss while emphasizing the importance of nutrition, because malnutrition is common in the elderly and sometimes difficult to detect. Physical activity should be tailored to accommodate chronic disease, sensory deficits, or functional limitations. In older adults at high risk for osteoporosis, any consideration of intentional weight loss must carefully balance the potential benefits and harms and should incorporate physical activity to minimize bone loss."

| McTigue K, Harris R, Hemphill MB, Bunton AJ, Lux LJ, Sutton S, Lohr KN. Screening and Interventions for Obesity in Adults: Summary of the Evidence for the U.S. Preventive Services Task Force. Ann Intern Med 2003;139:933-949. |
|---|
| McTigue and colleagues reported the results of a systematic review "to determine the effectiveness of adult obesity screening—the conscious measurement of weight status to clinically address body weight—and treatment." The authors preferred evidence from randomized, controlled trials or systematic reviews of randomized controlled trials. The authors found: |
| "Obesity is a risk factor for major causes of death, including cardiovascular disease, numerous types of cancer, and diabetes, and is linked with markedly diminished life expectancy. Osteoarthritis, gall bladder disease, sleep apnea, respiratory impairment, diminished mobility, and social stigmatization are associated with obesity." "Body mass index, the most common screening test for obesity, is easy to measure, highly reliable, and closely correlated (r = 0.7 to 0.8) with adult body fat. Validity may vary by demographic characteristics, including ethnicity and possibly age. Clinical relevance is established by prospective links with diverse health outcomes." "Although RCT evidence for long-term improved health with weight loss is limited, weight loss— associated changes in intermediate health variables suggest benefit. In the setting of escalating obesity prevalence, the importance of considering body weight in clinical practice seems clear. With counseling, obese patients can achieve modest but clinically significant, sustained (1 to 2 years) weight loss (for example, 3 to 5 kg). Because control groups also frequently received some intervention, this estimate may be conservative. More intense programs were generally more successful, as were those incorporating behavioral therapy." "We found less evidence for effects of weight loss on ultimate (generally symptomatic) health outcomes. Limited observational data suggest that intentional weight loss in obese persons (particularly those with comorbid conditions) can reduce mortality. Two large RCTs showed that behaviorally mediated weight loss can prevent diabetes among those with glucose intolerance (58% reduction; P < 0.05) (67, 81). A smaller reduction in diabetes incidence (31% [CI, 17% to 43%]) was seen among similar metformin-treated patients." |
| The authors concluded: "Counseling and pharmacotherapy can promote modest sustained weight loss, improving clinical outcomes. Pharmacotherapy appears safe in the short term; long-term safety has not been as strongly established. In selected patients, surgery promotes large amounts of weight loss with rare but sometimes severe complications." |
| 3.Internal technology assessment |
| Mozaffarian D, Hao T, Rimm EB, Willett WC, Hu FB. Changes in Diet and Lifestyle and Long-Term Weight Gain in Women and Men. N Engl J Med 2011;364:2392-2404. |
| Mozaffarian and colleagues reported the results of a combined analysis to investigate "the relationship between multiple lifestyle changes, both independently and jointly, and long-term weight gain in nonobese women and men participating in three separate, prospective studies." The authors pooled data from the Nurses' Health Study (NHS), a prospective cohort of 121,701 female registered nurses, the Nurses' Health Study II (NHS II), a prospective cohort of 116,686 younger female registered nurses, and he Health Professionals Follow-up Study (HPFS), a prospective cohort of 51,529 male health professionals. Individuals with obesity, diabetes, cancer, or cardiovascular, pulmonary, renal, or liver disease at baseline and those who were over 65 years of age were among the excluded. Mean ages at baseline were 52 years, 38 years and 51 years, respectively. |

The authors noted that potato chips, potatoes, sugar-sweetened beverages, unprocessed red meats and processed meats were most strongly associated with 4 year weight change (gain) and that intake of vegetables, whole grains, fruits, nuts and yogurt were inversely associated.



| The authors stated: "In conclusion, our prospective findings in adults ages 60 and over show that low fitness predicted higher all-cause mortality risk after adjustment for potential confounding factors including adiposity. Fit individuals had greater longevity than unfit individuals regardless of their body composition or fat distribution. Our data provide further evidence regarding the complex long-term relationship among fitness, body size, and survival. We may be able to reduce all-cause death rates among older adults, including those who are obese, by promoting regular physical activity, such as brisk walking for 30 minutes or more on most days of the week (about 8-kcal/kg per week), which will keep most individuals out of the low fitness category. Enhancing functional capacity also should allow older adults to achieve a healthy lifestyle and to enjoy longer life in better health." |
|--|
| Villareal DT, Chode S, Parimi N, Sinacore DR, Hilton T, Armamento-Villareal R, Napoli N, Qualls C, Shah K. Weight Loss, Exercise, or Both and Physical Function in Obese Older Adults. N Engl J Med 2011;364:1218-1229. |
| Villareal and colleagues reported the results of a randomized, controlled trial "to determine the independent and combined effects of sustained weight loss and regular exercise on physical function, body composition, and quality of life in obese older adults." Individuals age 65 years and older with a BMI ≥ 30 kg/m² with sedentary lifestyles and stable weight and medications were included. Exclusion criteria were "severe cardiopulmonary disease; musculoskeletal or neuromuscular impairments that preclude exercise training; visual, hearing, or cognitive impairments; or a history of cancer, as well as persons who were receiving drugs that affect bone health and metabolism or who were current smokers." Primary outcome was the change from baseline in performance testing including standing, walking and climbing. Interventions occurred weekly and included dietary assessment, dietary counseling and exercise training. A total of 107 individuals were randomized to three intervention groups (diet, exercise, diet and exercise) or one control group. Mean age was about 70 years. Men comprised about 37% of the population. Of the 107, 93 participants completed the 12 month trial. |
| The authors reported that physical performance increased significantly in all three intervention groups compared to control. The increase was greatest in the diet and exercise group. They concluded: "that weight loss alone or exercise alone improves physical function and ameliorates frailty in obese older adults; however, a combination of weight loss and regular exercise may provide greater improvement in physical function and amelioration of frailty than either intervention alone." |
| 4. Medicare Evidence Development and Coverage Advisory Committee (MEDCAC) Meeting |
| CMS did not hold a MEDCAC meeting on this topic. |
| 5. Evidence-based Clinical Guidelines |
| Dahn JR, Fitzpatrick SL, Llabre MM, Apterbach GS, Helms RL, Cugnetto ML, Klaus J, Florez H, Lawler T. Weight management for veterans: examining change in weight before and after MOVE! Obesity (Silver Spring) 2011;19:977-981. |
| |

Dahn and colleagues reported the results of a study "to assess treatment effects of MOVE! Weight Management Program for Veterans by comparing the trajectory of change in weight postintervention (3, 6, and 12 months postenrollment) to a preintervention period (1, 3, and 5 years before enrollment)." Based upon on the National Institutes of Health (NIH) guidelines and the 2003 USPSTF recommendation, the MOVE! (Managing Overweight/Obesity for Veterans Everywhere; www.move.va.gov) program was designed "to offer an evidence-based, multidisciplinary, comprehensive approach to weight management that is centered around the patient and tailored to individual needs." At one site (VA Miami, FL), 862 veterans who had a BMI ≥30.0 kg/m² or a BMI of 25.0-30.0 kg/m² with one or more obesity-related conditions, such as diabetes, hypertension and participated in the program. All veterans "participated in a 2-h Self-Management Support (SMS) session, which involved completion of a self-assessment questionnaire and a nutrition education group session." After this, "veterans had the option of continuing with Supportive Group Sessions (SGS), which included 10-weekly group sessions led by a multidisciplinary team." Mean age was about 54 years. Men comprised about 86% of the population. Follow-up duration was 12 months. The authors reported that "weight for participants in SMS stabilized after enrollment whereas participants in SGS had an average weight loss of 1.6 kg/year." They concluded that "findings from this study support the need for a lifestyle modification program such as MOVE! in primary care settings to assist overweight and obese patients in managing their weight."

Kinsinger LS, Jones KR, Kahwati L, Harvey R, Burdick M, Zele V, Yevich SJ. Design and dissemination of the MOVE! weight-management program for veterans. Prev Chronic Dis 2009;6(3). http://www.cdc.gov/pcd/issues/2009/jul/08 0150.htm.

Kinsinger and colleagues reported the design and implementation plan of MOVE! The program was "created on the basis of guidelines from the National Institutes of Health (NIH) and other current literature." The program followed the 2003 US Preventive Services Task Force recommendation that "clinicians screen all adult patients for obesity and offer intensive counseling and behavioral interventions to promote sustained weight loss for obese adults." "Designed to be integrated into patients' ongoing care and implemented in primary care clinics, MOVE! is a clinical process and set of tools for facilities and clinicians to offer an evidence-based, multidisciplinary, comprehensive approach to weight management that is centered around the patient and tailored to individual needs."

The components of MOVE! include: (1) "a paper or Web-based 23-item baseline assessment, the MOVE!23 questionnaire (www.move.va.gov/Move23.asp). This assessment elicits information about medical history; weight and weight-management history; motivational factors; barriers to modifying physical activity, diet, and weight-related behaviors and patients' readiness to change these behaviors. On completion, patients receive a summary report that identifies their individual needs and recommendations, supplemented by tailored links to specific patient handouts." (2) staff assisted patient specific "short term nutrition, physical activity, or behavior change goals. Staff provide diet and physical activity logs and may give pedometers to patients to track steps. Staff follow up with patients by telephone or in person in 1 to 3 weeks to determine progress toward or barriers to meeting goals. Ideally, staff-patient contact is ongoing, based on continuing patient need and desire for supported self-management. Many patients also attend group sessions for further instruction and support." (3) "Modules for multidisciplinary staff to use in conducting group sessions (www.move.va.gov/GrpSessions.asp) have been developed as part of MOVE!. Individual consultation is available for patients who need tailored treatment plans because of comorbid illness or other complicating factors. For patients who need more intensive interventions, Veterans Affairs (VA) facilities provide on a limited basis weight-loss medications, intensive medical management, and bariatric surgery."

Lin JS, O'Connor E, Whitlock EP, Beil TL. Behavioral Counseling to Promote Physical Activity and a Healthful Diet to Prevent Cardiovascular Disease in Adults: A Systematic Review for the U.S. Preventive Services Task Force. Ann Intern Med 2010;153:736-750.

Lin and colleagues reported the results of a systematic evidence review to "assist the U.S. Preventive Services Task Force in updating its previous recommendations by systematically reviewing trials of physical activity or dietary counseling to prevent cardiovascular disease." They addressed the following key questions: (1) "Do primary care-relevant behavioral counseling interventions for physical activity or healthful diet improve cardiovascular disease health outcomes (prevent morbidity and mortality) in adults?" (2) "Do primary care-relevant behavioral counseling interventions for physical activity or healthful diet improve intermediate outcomes associated with cardiovascular disease (such as lipid levels, blood pressure, glucose tolerance, weight, or body mass index) in adults (including older adults)?" (3) "Do primary care-relevant behavioral counseling interventions for physical activity or healthful diet change associated health behaviors in adults?" (4) "What are the adverse effects of primary care-relevant behavioral counseling interventions for physical activity or healthful diet in adults?"

Trials on primary care—relevant counseling on physical activity or healthful diet interventions were included. Studies with "interventions primarily aimed at weight loss or those that provided controlled diets or supervised physical activity" were excluded. Of the 481 studies reviewed, 66 were included in the analysis. Of these, 13 were considered good quality trials. Intervention intensity was categorized as "low [≤ 30 minutes], medium [between 31 minutes and 6 hours of contact], or high [> 6 hours of contact]." Men accounted for approximately 17% of all trial participants. Eleven trials included only women. Weighted mean age was 59 years. There were nine trials in older adults. The authors reported: "Long-term observational follow-up of intensive sodium reduction counseling showed a decrease in the incidence of cardiovascular disease; however, other direct evidence for reduction in disease morbidity is lacking. High-intensity dietary counseling, with or without physical activity counseling, resulted in changes of -0.3 to -0.7 kg/m² in body mass index (adiposity), -1.5 mm Hg (95% CI, -0.9 to -2.1 mm Hg) in systolic blood pressure, -0.7 mm Hg (CI, -0.6 to -0.9 mm Hg) in diastolic pressure, -0.17 mmol/L (CI, -0.09 to -0.25 mmol/L) (-6.56 mg/dL [CI, -3.47 to -9.65 mg/dL]) in total cholesterol level, and -0.13 mmol/L (CI, -0.06 to -0.21 mmol/L) (-5.02 mg/dL [CI, -2.32 to -8.11 mg/dL]) in low-density lipoprotein cholesterol level. Medium- and high-intensity counseling resulted in moderate to large changes in self-reported dietary and physical activity behaviors." They concluded: "Counseling to improve diet or increase physical activity changed health behaviors and was associated with small improvements in adiposity, blood pressure, and lipid levels."

National Institute for Health and Clinical Excellence. Obesity guidance on the prevention, identification, assessment and management of overweight and obesity in adults and children. NICE 2006;clinical guideline 43:1-84. At http://www.nice.org.uk/nicemedia/live/11000/30365/30365.pdf

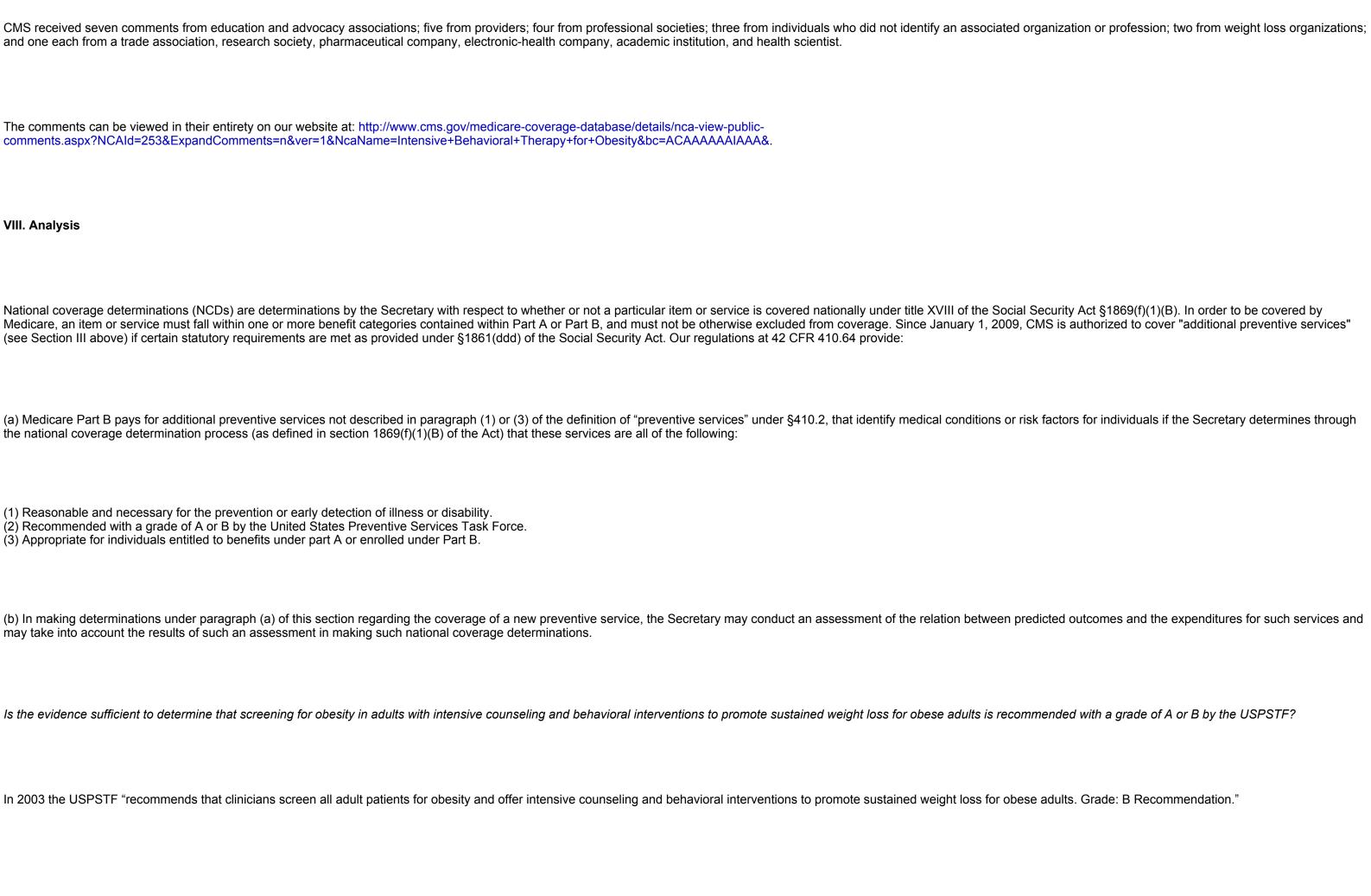
The National Institute for Health and Clinical Excellence (NICE) published evidence-based guidelines to help individuals "prevent and manage overweight and obesity." They noted that "body mass index (BMI) should be used as a measure of overweight in adults." They classified individuals with a BMI of 25-29.9 kg/m² as being overweight and individuals with a BMI \geq 30 kg/m² as having obesity (I, II, III). They presented a number of lifestyle interventions approaches to assist with weight loss.

U.S. DHHS, National Institutes of Health, National Heart, Lung, and Blood Institute National, High Blood Pressure Education Program. The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure. NIH Publication No. 04-5230 August 2004.

The NIH highlighted the importance of diet: "Adoption of healthy lifestyles by all persons is critical for the prevention of high BP and is an indispensable part of the management of those with hypertension. Weight loss of as little as 10 lbs (4.5 kg) reduces BP and/or prevents hypertension in a large proportion of overweight persons, although the ideal is to maintain normal body weight. BP is also benefited by adoption of the Dietary Approaches to Stop Hypertension (DASH) eating plan which is a diet rich in fruits, vegetables, and low fat dairy products with a reduced content of dietary cholesterol as well as saturated and total fat (modification of whole diet). It is rich in potassium and calcium content. Dietary sodium should be reduced to no more than 100 mmol per day (2.4 g of sodium). Everyone who is able should engage in regular aerobic physical activity such as brisk walking at least 30 minutes per day most days of the week. Alcohol intake should be limited to no more than 1 oz (30 mL) of ethanol, the equivalent of two drinks per day in most men and no more than 0.5 oz of ethanol (one drink) per day in women and lighter weight persons. A drink is 12 oz of beer, 5 oz of wine, and 1.5 oz of 80-proof liquor. Lifestyle modifications reduce BP, prevent or delay the incidence of hypertension, enhance antihypertensive drug efficacy, and decrease cardiovascular risk. For example, in some individuals, a 1,600 mg sodium DASH eating plan has BP effects similar to single drug therapy. Combinations of two (or more) lifestyle modifications can achieve even better results. For overall cardiovascular risk reduction, patients should be strongly counseled to quit smoking."

E. Public Comments

During the initial 30-day public comment period (03/11/2011 – 04/10/2011) CMS received 27 public comments. Twenty five of these comments were generally supportive of coverage for intensive behavioral therapy for obesity. One commenter suggested that outstanding issues required attention before a determination could be made and one commenter provided comments that appeared to be unsupportive of Medicare coverage. While commenters largely agreed that intensive behavioral therapy for obesity should be provided at high intensity (once per week or once every two weeks), they also offered varying suggestions regarding appropriate components and providers of therapy services. Numerous commenters provided citations for publications to support their comments. CMS reviewed the referenced literature and included some in this analysis.





- "Regular physical activity helps prevent cardiovascular disease, hypertension, type 2 diabetes, obesity, and osteoporosis. It may also decrease all-cause morbidity and lengthen life-span."
- "Benefits of physical activity are seen at even modest levels of activity, such as walking or bicycling 30 minutes per day on most days of the week. Benefits increase with increasing levels of activity."

While this proposed decision also does not address pharmacotherapy or surgery for obesity, physicians should consider adjunct therapy to maximize individual weight loss when medically necessary and indicated.

We conclude that the evidence is sufficient to determine that screening for obesity in older adults along with high intensity behavioral interventions is appropriate for Medicare beneficiaries.

Visit

1. Screening for Obesity

Obesity is defined as a body mass index (BMI) \geq 30 kg/m².

Calculation of BMI (directly from the CDC at http://www.cdc.gov/healthyweight/assessing/bmi/adult_bmi/index.html)

BMI is calculated the same way for both adults and children. The calculation is based on the following formulas:

| Measurement Units | Formula and Calculation | |
|---------------------------------------|---|--|
| Kilograms and meters (or centimeters) | Formula: weight (kg) / [height (m)] ² | |
| | With the metric system, the formula for BMI is weight in kilograms divided by height in meters squared. Since height is commonly measured in centimeters, divide height in centimeters by 100 to obtain height in meters. | |
| | Example: Weight = 68 kg, Height = 165 cm (1.65 m) | |

| Measurement Units | Formula and Calculation | | |
|-------------------|--|--|--|
| | Calculation: $68 \div (1.65)^2 = 24.98$ | | |
| | | | |
| | | | |
| | | | |
| | Formula: weight (lb) / [height (in)] ² x 703 | | |
| | r ommanar mongrit (iio) / [mongrit (iii)] / x r oo | | |
| Pounds and inches | | | |
| | Calculate BMI by dividing weight in pounds (lbs) by height in inches (in) squared and multiplying by a conversion factor of 703. | | |
| | | | |
| | | | |
| | | | |
| | Example: Weight = 150 lbs, Height = 5'5" (65") | | |
| | Calculation: $[150 \div (65)^2] \times 703 = 24.96$ | | |
| | | | |
| | | | |
| | | | |
| | | | |

Interpretation of BMI for Adults

For adults 20 years old and older, BMI is interpreted using standard weight status categories that are the same for all ages and for both men and women. For children and teens, on the other hand, the interpretation of BMI is both age- and sex-specific. For more information about interpretation for children and teens, visit Child and Teen BMI Calculator (http://apps.nccd.cdc.gov/dnpabmi/).

The standard weight status categories associated with BMI ranges for adults are shown in the following table.

| ВМІ | Weight Status |
|----------------|---------------|
| Below 18.5 | Underweight |
| 18.5 – 24.9 | Normal |
| 25.0 – 29.9 | Overweight |
| 30.0 and Above | Obese |

For example, here are the weight ranges, the corresponding BMI ranges, and the weight status categories for a sample height.

| Height | Weight Range | ВМІ | Weight Status |
|--------|--------------------|--------------|---------------|
| | 124 lbs or less | Below 18.5 | Underweight |
| 5' 9" | 125 lbs to 168 lbs | 18.5 to 24.9 | Normal |
| | 169 lbs to 202 lbs | 25.0 to 29.9 | Overweight |
| | 203 lbs or more | 30 or higher | Obese |

2. Nutritional Assessment

Ammerman and colleagues (for the USPSTF/AHRQ, 2002) reported:

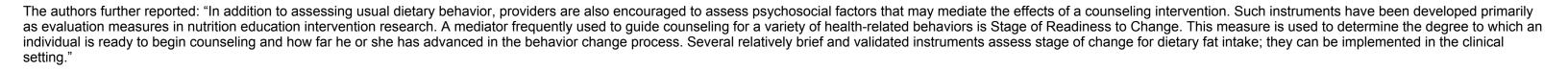
"Several brief screening instruments have been developed to assess nutritional status in the elderly. Although many are designed for long-term-care patients, some have been validated in community-living elderly and are intended for use by the primary care provider. Three extensively used and tested instruments are described here.

The Nutrition Risk Index (NRI) was derived initially from questions used in the first National Health and Nutrition Examination Survey (NHANES I). Validity has been tested by the ability of the NRI to predict use of health services and correlations with a variety of anthropometric, laboratory, and clinical markers of nutritional status.

The DETERMINE instrument was developed as part of the Nutrition Screening Initiative - a 5-year campaign begun in 1990 to promote nutrition screening and better nutritional care among the elderly in the United States in response to the 1988 US Surgeon General's Workshop on Health Promotion and Aging. This instrument has been validated against measures of depressive symptoms and functional disability.

Probably the most extensively validated instrument is the Mini Nutritional Assessment (MNA). Validation criteria include nutritional status determined by physicians using standard anthropometric, clinical, and dietary measures mortality, and hospital cost.

These instruments all consist of 18 or fewer yes/no checklist items and involve a weighted score. Nutrition factors common to all three instruments include unintended weight loss, problems with chewing and swallowing, polypharmacy, and concurrent illness. The DETERMINE checklist and the MNA also include food access, social isolation, mobility, poverty, and intake of fruits, vegetables, and protein sources. The MNA includes questions to assess psychological problems, dementia, independent living status, and a self-assessment of nutrition problems and relative health status."



3. Intensive Behavioral Counseling

Whitlock and colleagues presented a model for behavioral counseling interventions:

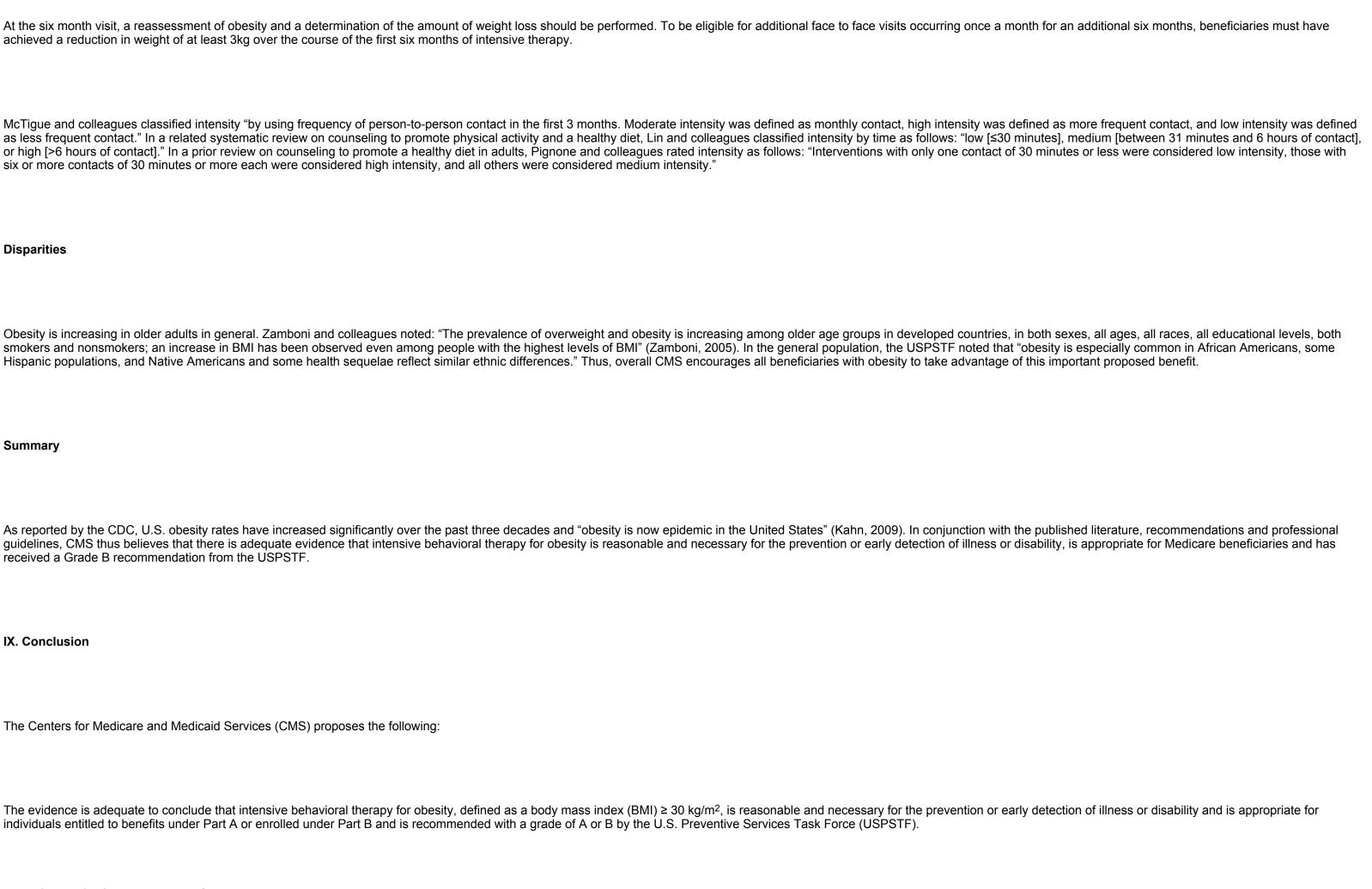
"The Four A's construct (ask, advise, assist, arrange) was originally developed by the National Cancer Institute to guide physician intervention in smoking cessation. Recently, the Canadian Task Force on Preventive Health Care proposed that clinicians use a Five A's construct (adding an agree step) to organize their general approach to assisting patients with behavioral counseling issues (W. Elford, Canadian Task Force on Preventive Health Care, personal communication, December 2000). The U.S. Public Health Service used the A's construct to report on high-quality, controlled clinical trials in tobacco cessation, many conducted in primary care settings to test brief, feasible, population level interventions. The A's construct has also been applied to brief primary care interventions for a variety of other behaviors. To be congruent with the U.S. Public Health Service and Canadian Task Force concepts of the A's construct, we adopted the following terminology to describe minimal contact interventions that are provided by a variety of clinical staff in primary care settings:

- Assess: Ask about/assess behavioral health risk(s) and factors affecting choice of behavior change goals/methods.
- Advise: Give clear, specific, and personalized behavior change advice, including information about personal health harms and benefits.
- Agree: Collaboratively select appropriate treatment goals and methods based on the patient's interest in and willingness to change the behavior.
- Assist: Using behavior change techniques (self-help and/or counseling), aid the patient in achieving agreed-upon goals by acquiring the skills, confidence, and social/environmental supports for behavior change, supplemented with adjunctive medical treatments when appropriate (e.g., pharmacotherapy for tobacco dependence, contraceptive drugs/devices).
- Arrange: Schedule follow-up contacts (in person or by telephone) to provide ongoing assistance/support and to adjust the treatment plan as needed, including referral to more intensive or specialized treatment."

Frequency of Visit

For Medicare beneficiaries with obesity, who are competent and alert at the time that counseling is provided and whose counseling is furnished by a qualified primary care physician or other primary care practitioner and in a primary care setting, CMS proposes to cover high intensity behavioral counseling and therapy as follows:

- One face to face visit every week for the first month;
- One face to face visit every other week for months 2-6;
- One face to face visit every month for months 7-12.



Intensive behavioral therapy for obesity consists of the following:

- 1. Screening for obesity in adults using measurement of BMI calculated by dividing weight in kilograms by the square of height in meters (expressed in kg/m2);
- 2. Dietary (nutritional) assessment; and
- 3. Intensive behavioral counseling and behavioral therapy to promote sustained weight loss through high intensity interventions on diet and exercise.

The intensive behavioral counseling intervention for obesity should be consistent with the 5-A framework that has been highlighted by the USPSTF:

- Assess: Ask about/assess behavioral health risk(s) and factors affecting choice of behavior change goals/methods.
- 2. Advise: Give clear, specific, and personalized behavior change advice, including information about personal health harms and benefits.
- 3. **Agree**: Collaboratively select appropriate treatment goals and methods based on the patient's interest in and willingness to change the behavior.
- 4. **Assist**: Using behavior change techniques (self-help and/or counseling), aid the patient in achieving agreed-upon goals by acquiring the skills, confidence, and social/environmental supports for behavior change, supplemented with adjunctive medical treatments when appropriate.
- 5. **Arrange**: Schedule follow-up contacts (in person or by telephone) to provide ongoing assistance/support and to adjust the treatment plan as needed, including referral to more intensive or specialized treatment.

For Medicare beneficiaries with obesity, who are competent and alert at the time that counseling is provided and whose counseling is furnished by a qualified primary care physician or other primary care practitioner and in a primary care setting, CMS proposes to cover:

- One face to face visit every week for the first month;
- One face to face visit every other week for months 2-6;
- One face to face visit every month for months 7-12.

At the six month visit, a reassessment of obesity and a determination of the amount of weight loss should be performed. To be eligible for additional face to face visits occurring once a month for an additional six months, beneficiaries must have achieved a reduction in weight of at least 3kg over the course of the first six months of intensive therapy. This determination must be documented in the physician office records for applicable beneficiaries consistent with usual practice.

For the purposes of this proposed decision memorandum, a primary care setting is defined as one in which there is provision of integrated, accessible health care services by clinicians who are accountable for addressing a large majority of personal health care needs, developing a sustained partnership with patients, and practicing in the context of family and community. Emergency departments, inpatient hospital settings, outpatient hospital settings, ambulatory surgical centers, independent diagnostic testing facilities, skilled nursing facilities, inpatient rehabilitation facilities and hospices are not considered primary care settings under this definition.

For the purposes of this proposed decision memorandum a "primary care physician" and "primary care practitioner" will be defined consistent with existing sections of the Social Security Act (§1833(u)(6), §1833(x)(2)(A)(i)(I) and §1833(x)(2)(A)(i)(II)).

| ~ 4 | 833(| / \ |
|----------|------------------------|------------|
| A٦ | $\times \times \times$ | 111 |
| יצ | 000 | u, |

(6) Physician Defined.—For purposes of this paragraph, the term "physician" means a physician" means a physician described in section 1861(r)(1) and the term "primary care physician" means a physician who is identified in the available data as a general practitioner, family practice practitioner, general internist, or obstetrician or gynecologist.

§1833(x)(2)(A)

Primary care practitioner—The term "primary care practitioner" means an individual—

- (i) who-
- (i) is a physician (as described in section 1861(r)(1)) who has a primary specialty designation of family medicine, internal medicine, geriatric medicine, or pediatric medicine; or
- (II) is a nurse practitioner, clinical nurse specialist, or physician assistant (as those terms are defined in section 1861(aa)(5)).

We are requesting public comments on this proposed determination pursuant to section 1862(I) of the Social Security Act. After considering the public comments, we will make a final determination and issue a final decision memorandum.

Back to Top

Bibliography

http://www.uspreventiveservicestaskforce.org/uspstf/grades.htm U.S. Preventive Services Task Force, Grade Definitions.

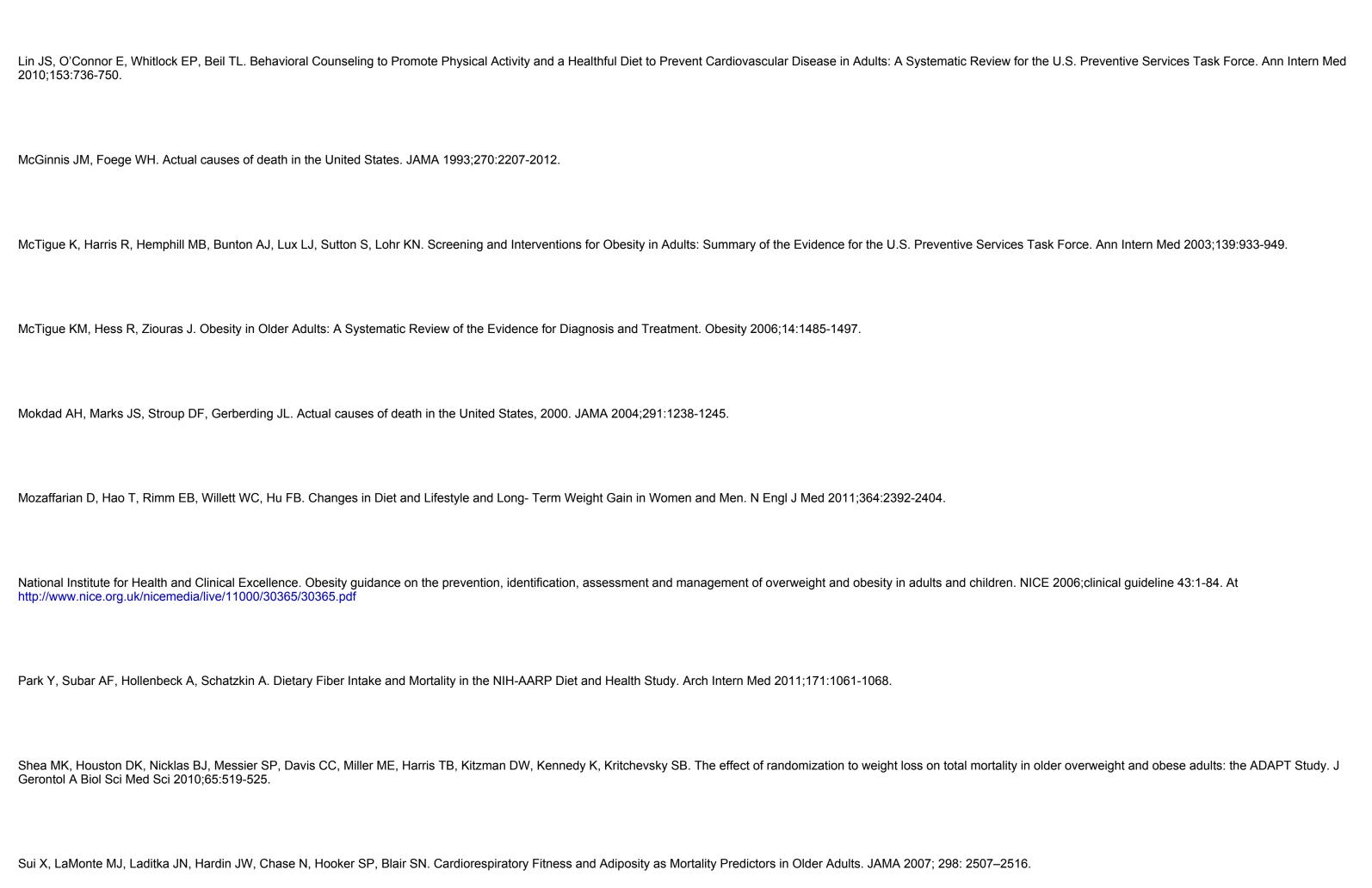
http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=ba67033e51c67d5d7fe32ae83b33d8e5&rgn=div5&view=text&node=42:2.0.1.2.10&idno=42#42:2.0.1.2.10.2.35.50 42 CFR §410.64 Additional preventive services.

http://www.cdc.gov/healthyweight/assessing/bmi/adult_bmi/index.html

http://apps.nccd.cdc.gov/dnpabmi/

AHRQ Primary Care Practice Based Research network (PBRN) Initiative. (http://pbrn.ahrq.gov/portal/server.pt/community/practice_based_research_networks_%28pbrn%29_about/852) (last accessed 5/17/2011).

| Ammerman A, Pignone M, Fernandez L, Lohr K, Jacobs AD, Nester C, Orleans T, Pender N, Woolf S, Sutton SF, Lux LJ, Whitener L. Counseling to Promote a Healthy Diet. DHHS Agency for Healthcare Research and Quality, Systematic Evidence Reviews, No. 18, April 2002. |
|---|
| Brown T, Avenell A, Edmunds LD, Moore H, Whittaker V, Avery L, Summerbell C, for the PROGRESS Team. Systematic review of long-term lifestyle interventions to prevent weight gain and morbidity in adults. Obesity Reviews 2009;10:627–638. |
| Cochrane A and Holland W. Validation of screening procedures. British Medical Bulletin 1971;27(1):3-8. PMID: 5100948 |
| Curioni C, André C, Veras R. Weight reduction for primary prevention of stroke in adults with overweight or obesity. Cochrane Database of Systematic Reviews 2006, Issue 4. Art. No.: CD006062. DOI: 10.1002/14651858.CD006062.pub2. |
| Dahn JR, Fitzpatrick SL, Llabre MM, Apterbach GS, Helms RL, Cugnetto ML, Klaus J, Florez H, Lawler T. Weight management for veterans: examining change in weight before and after MOVE! Obesity (Silver Spring) 2011;19:977-981. |
| Flegal KM, Carroll MD, Ogden CL, Curtin LR. Prevalence and trends in obesity among US adults, 1999-2008. JAMA 2010;303:235-421. |
| Franz MJ, VanWormer JJ, Crain AL, Boucher JL, Histon T, Caplan W, Bowman JD, Pronk NP. Weight-loss outcomes: a systematic review and meta-analysis of weight-loss clinical trials with a minimum 1-year follow-up. J Am Diet Assoc 2007;107:1755-1767. |
| IOM. Primary Care: America's Health in a New Era. Donaldson MS, Yordy KD, Lohr KN, Vanselow NA, eds. National Academy Press 1996. Executive Summary available at http://books.nap.edu/openbook.php?record_id=5152&page=1 (last accessed 5/17/2011.) |
| Khan LK, Sobush K, Keener D, Goodman K, Lowry A, Kakietek J, Zaro S; Centers for Disease Control and Prevention. Recommended community strategies and measurements to prevent obesity in the United States. MMWR Recomm Rep. 2009 Jul 24;58(RR-7):1-26. |
| Kinsinger LS, Jones KR, Kahwati L, Harvey R, Burdick M, Zele V, Yevich SJ. Design and dissemination of the MOVE! weight-management program for veterans. Prev Chronic Dis 2009;6(3). http://www.cdc.gov/pcd/issues/2009/jul/08_0150.htm. |
| Printed on 11/20/2011. Page 26 of 28 |



Printed on 11/20/2011. Page 27 of 28

| Pignone MP, Ammerman A, Fernandez L, Orleans CT, Pender N, Woolf S, Lohr KN, Sutton S. Counseling to promote a healthy diet in adults: a summary of the evidence for the U.S. Preventive Services Task Force. Am J Prev Med 2003;24:75-92. |
|--|
| J.S. DHHS, National Institutes of Health, National Heart, Lung, and Blood Institute National, High Blood Pressure Education Program. The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure. NIH Publication No. 04-5230 August 2004. |
| J.S. Preventive Services Task Force. Behavioral Counseling in Primary Care to Promote a Healthy Diet Recommendations and Rationale. Am J Prev Med 2003;24:93-100. |
| Villareal DT, Chode S, Parimi N, Sinacore DR, Hilton T, Armamento-Villareal R, Napoli N, Qualls C, Shah K. Weight Loss, Exercise, or Both and Physical Function in Obese Older Adults. N Engl J Med 2011;364:1218-1229. |
| Wee CC, Huskey KW, Ngo LH, Fowler-Brown A, Leveille SG, Mittlemen MA, McCarthy EP. Obesity, race and risk for death or functional decline among Medicare beneficiaries: a cohort study. Ann Intern Med 2011 May 17;154(10):645-55. |
| Whitlock EP, Orleans CT, Pender N, Allan J. Evaluating Primary Care Behavioral Counseling Interventions. Am J Prev Med 2002;22:267–284. |
| Zamboni M, Mazzali G, Zoico E, Harris TB, Meigs JB, Di Francesco V, Fantin F, Bissoli L, Bosello O. Health consequences of obesity in the elderly: a review of four unresolved questions. International Journal of Obesity 2005;29:1011–1029. |
| Back to Top |
| |
| |
| |